## Appendix D: Economic Analysis Data

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Table D-1 Percent Value-Added Lost Due to Specified Percent Loss of Water Supply Lifeline

	U.S. Econ.			<u></u>							
L/L Capacity Loss>	Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1 Livestock	0.45%	2.37%	7.4400	44.0404	40 000		22.32.33			1	
2 Agr. Prod.	1.06%		7.11%	11.84%	16,58%	21.32%	26.05%	30.79%	35.53%	40.26%	45.009
3 AgServ For, Fish	0.11%	3.68%	11.05%	18.42%	25.79%	33.16%	40.53%	47.89%	55.26%	62.63%	70.009
4 Mining		2.37%	7.11%	11.84%	16.58%	21.32%	26.05%	30.79%	35.53%	40.26%	45.009
5 Construction	3.89%	0.79%	2.37%	3.95%	5.53%	7.11%	8.68%	10.26%	11.84%	13.42%	15.009
6 Food Tobacco	5.52%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.009
7 Textile Goods	2.41%	3.68%	11.05%	18.42%	25.79%	33.16%	40.53%	47.89%	55.26%	62.63%	70.009
	0.37%	3.68%	11.05%	18.42%	25.79%	33.16%	40.53%	47.89%	55.26%	62.63%	70.00
- 1111001, 1 1001,	0.73%	3.68%	11.05%	18.42%	25.79%	33.16%	40.53%	47.89%	55.26%	62,63%	70.009
9 Lumber & Wood	0.52%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.009
10 Furniture	0.34%	2.63%	7.89%	13.16%	18.42%	23,68%	28.95%	34.21%	39.47%	44.74%	50.009
11 Pulp & Paper	0.87%	3.16%	9.47%	15.79%	22.11%	28.42%	34.74%	41.05%	47.37%	53.68%	60.009
12 Print & Publish	1.31%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	30.009
13 Chemical & Drug		4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.009
14 Petrol. Refining	0.96%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.009
15 Rubber & Plastic	1.03%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
16 Leather Prods.	0.12%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.009
17 Glass Stone Clay	0.62%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	
18 Prim. Metal Prod.	1.04%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80,53%	50.009
19 Fab. Metal Prod.	1.64%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%			90:009
20 Mach. Exc. Elec.	1.56%	3.16%	9.47%	15.79%	22.11%	28.42%	34.74%	41.05%	63.16%	71.58%	80,009
21 Elec. & Electron	2.52%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	47.37%	53.68%	60.009
22 Transport Eq.	2.62%	3.16%	9.47%	15.79%	22.11%	28.42%			71.05%	80.53%	90.009
23 Instruments	0.68%	4.74%	14.21%	23.68%	33.16%	42.63%	34.74%	41.05%	47.37%	53.68%	60.00%
24 Misc. Manufact,	0.69%	3.16%	9.47%	15.79%	22.11%		52.11%	61.58%	71.05%	80.53%	90.00%
25 Transp & Whse.	3.46%	1.05%	3.16%	5.26%	22.11% 7.07%	28.42%	34.74%	41.05%	47.37%	53.68%	60.00%
26 Utilities	5.89%	2.11%	6.32%		7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
27 Wholesale Trade	5.63%	1.05%	3.16%	10.53% 5.26%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.009
28 Retail Trade	5.63%	1.05%			7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.009
29 F.I.R.E.	16.64%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
30 Pers./Prof. Serv.	8.03%		3:16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	. 20.009
31 Eating Drinking		1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.009
32 Auto Serv.	2.12%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
33 Amuse & Rec.	1.09%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
34 Health Ed. Soc.	0.70%	4.21%	12.63%	21.05%	29.47%	37.8 <del>9</del> %	46.32%	54.74%	63.16%	71.58%	80.009
	6.30%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
	11.79%	1.32%	3.95%	6.58%	9.21%	11.84%	14.47%	17.11%	19.74%	22.37%	25.00%
36 Households	0.25%	2.11%	6.32%	10,53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.009
TOTAL	100.00%	2.70%	8.11%	13.52%	18.93%	24.34%	29.75%	35.16%	40.57%	45.98%	51.39%
		Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg	Total V.A
,							and the state of the second			, 5.	Pct. V.A

Table D-2 Percent Value-Added Lost Due to Specified Percent Loss of Electric Lifeline

	11.C. E	TARRIPLIA.	N								
L/L Capacity Loss>	U.S. Econ. Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1 Livestock	0.45%	2.63%	7.89%	10.100	de inni	** *					
2 Agr. Prod.	1.06%	2.63%	7.89%	13.16%	18.42%	23,68%	28,95%	34.21%	39.47%	44.74%	50.00%
3 AgServ For Fish	0.11%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39,47%	44.74%	50.00%
4 Mining	3.89%	4.74%	14.21%	13.16%	18.42%	23,68%	28,95%	34.21%	39.47%	44.74%	50.00%
5 Construction	5.52%	2.11%	14.6170 6.00W	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90,00%
6 Food Tobacco	2.41%	4.74%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
7 Textile Goods	0.37%		14.21%	23.68%	93.16%	42.63%	52.11%	61.58%	71.05%	80,53%	90,00%
8 Misc Text, Prod.	0.73%	5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	78.95%	89,47%	100.00%
9 Lumber & Wood	0.73%	5.26%	15.79%	26,32%	36,84%	47.37%	57.89%	68.42%	78.95%	89.47%	100,00%
10 Furniture		5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	78.95%	89.47%	100.00%
11 Pulp & Paper	0.34%	5.26%	15.79%	26,32%	36.84%	47.37%	57.89%	68.42%	78.95%	89.47%	100,00%
12 Print & Publish	0.87%	5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	78.95%	89.47%	100,00%
13 Chemical & Drugs	1.31%	5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	78.95%	89.47%	100,00%
14 Petrol. Refining	1.40%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
16 Dubband Menning	0.96%	5.26%	15.79%	26.32%	36,84%	47.37%	57.89%	68.42%	78.95%	89.47%	100.00%
15 Hubber & Plastic	1.03%	5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	78.95%	69.47%	100.00%
16 Leather Prods.	0.12%	5.26%	15,79%	26.32%	36,84%	47.37%	57.89%	68.42%	78.95% 78.95%	89.47%	
17 Glass Stone Clay	0.62%	5.26%	15.79%	26.32%	36.84%	47.97%	57.89%	68.42%	78.95%		100.00%
18 Prim. Metal Prod.	1.04%	4.74%	14.21%	23,68%	33.16%	42,63%	52.11%	61.58%	71.05%	89.47%	100.00%
19 Fab. Metal Prod.	1.64%	5,26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	71.05% 78.95%	80.53%	90.00%
20 Mach, Exc. Elec.	1,56%	5.26%	15,79%	26,32%	36.84%	47.37%	57.89%	68.42%		89.47%	100.00%
21 Elec. & Electron	2.52%	5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	00,42% 60.400/	78.95%	89.47%	100.00%
22 Transport Eq.	2,62%	5.26%	15.79%	26.32%	36,84%	47.37%	57.89%	68.42%	78.95%	89.47%	100.00%
23 Instruments	0.68%	5.26%	15.79%	26.32%	36.84%	47.97%		68.42%	78.95%	89.47%	100.00%
24 Misc. Manufact.	0.69%	5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	78.95%	89.47%	100.00%
25 Transp & Whse.	3.46%	1.58%	4.74%	7.89%	11.05%	14.21%	57,89%	68.42%	78.95%	89.47%	100.00%
26 Utilities	5.89%	4.21%	12.63%	21.05%	29,47%	37.89%	17.37%	20,53%	23,68%	26.84%	30.00%
27 Wholesale Trade	5.63%	4.74%	14.21%	23.68%	33,16%		46.32%	54.74%	63.16%	71.58%	80,00%
28 Retail Trade	5.63%	4.74%	14.21%	23.68%		42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
29 F.I.A.E.	16.64%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
30 Pers./Prof. Serv.	8.03%	4.74%	14.21%	23,68%	93.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
31 Eating Drinking	2.12%	4.21%	12.63%		33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90,00%
32 Auto Serv.	1.09%	4.74%	14.21%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
39 Amuse & Rec.	0.70%	4.21%		23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90,00%
34 Health Ed. Soc.	6.30%		12.63%	21.05%	29,47%	37.89%	46.32%	54.74%	63,16%	71.58%	80.00%
35 Govt & Govt Ind.	11.79%	4.21%	12.63%	21.05%	29.47%	37.89%	46,32%	54.74%	63.16%	71,58%	80.00%
36 Households		3.16%	9.47%	15.79%	22.11%	28,42%	34.74%	41.05%	47.37%	53,68%	60.00%
	0.25%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63,16%	71.58%	80.00%
TOTAL	100.00%	4.52%	13.55%	22.59%	31.62%	40,66%	49.69%	58.73%	67,76%	76 000/	or oor
		Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	76.80%	85,83%
					-		* ****	,y.	Úsā.	Avg.	Total V.A Pct. V.A,

Table D-3 Percent Value-Added Lost Due to Specified Percent Loss of Oil Supply Lifeline

	40 E =										
L/L Capacity Loss>	U.S. Econ. Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
				4.77						- 1 1 1,	
1 Livestock	0.45%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
2 Agr. Prod.	1.06%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
3 AgServ For, Fish	0.11%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
4 Mining	3.89%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
5 Construction	5.52%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
6 Food Tobacco	2.41%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50,00%
7 Textile Goods	0.37%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
<ol><li>8 Misc Text. Prod.</li></ol>	0.73%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
9 Lumber & Wood	0.52%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
10 Furniture	0.34%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
11 Pulp & Paper	0.87%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
12 Print & Publish	1.31%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
13 Chemical Drugs	1.40%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
14 Petrol. Refining	0.96%	5.26%	15.79%	26.32%	36.84%	47.37%	57.89%	68.42%	78.95%	89.47%	100.00%
15 Rubber & Plastic	1.03%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
16 Leather Prods.	0.12%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
17 Glass Stone Clay	0.62%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
18 Prim. Metal Prod.	1.04%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
19 Fab. Metal Prod.	1.64%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%		
20 Mach, Exc. Elec.	1.56%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74% 44.74%	50,00% 50,00%
21 Elec. & Electron	2.52%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%				
22 Transport Eq.	2.62%	4.74%	14.21%	23.68%	33.16%	42.63%		34.21%	39.47%	44.74%	50.00%
23 Instruments	0.68%	2.63%	7.89%	13.16%	18.42%	23.68%	52.11% 28.95%	61.58%	71.05%	80.53%	90.00%
24 Misc. Manufact.	0.69%	2.63%	7.89%	13.16%	18.42%	23.68%		34.21%	39.47%	44.74%	50.00%
25 Transp & Whse,	3.46%	4.74%	14.21%	23.68%	33.16%	42.63%	28.95%	34.21%	39.47%	44.74%	50.00%
26 Utilities	5.89%	2.63%	7.89%	13.16%	18.42%		52.11%	61.58%	71.05%	80.53%	90,00%
27 Wholesale Trade	5.63%	2.63%	7.89%	13.16%	18.42%	23.68% 23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
28 Retail Trade	5.63%	4.74%	14.21%	23.68%	33.16%		28.95%	34.21%	39.47%	44.74%	50.00%
29 F.I.R.E.	16.64%	3.16%	9.47%	15.79%	22.11%	42.63% 28.42%	52.11%	61.58%	71.05%	80.53%	90.00%
30 Pers./Prof. Serv.	8.03%	3.16%	9.47%	15.79%	22.11%		34.74%	41.05%	47.37%	53.68%	60.00%
31 Eating Drinking	2.12%	4.21%	12.63%	21.05%	22.11% 29.47%	28.42%	34.74%	41.05%	47.37%	53.68%	60.00%
32 Auto Serv.	1.09%	4.74%	14.21%	23.68%		37.89%	46.32%	54.74%	63.16%	71,58%	80,00%
33 Amuse & Rec.	0.70%	4.74%			33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
34 Health Ed. Soc.	6.30%	1.05%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
35 Govt & Govt Ind.	11.79%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
36 Households	0.25%	1.05% 2.63%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
*	4		7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
TOTAL	100.00%	3.25%	9.74%	16.23%	22.72%	29.21%	35.70%	42.19%	48.68%	55.18%	61.67%
		Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	· Avg.	Avg.	Total V.A
		1 - 1 - 1									Pct. V.A.

Table D-4 Percent Value-Added Lost Due to Specified Percent Loss of Natural Gas Supply Lifeline

									•		
L/L Capacity Loss>	U.S. Econ. Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
						4				· .	
1 Livestock	0.45%	0.53%	1.58%	2,63%	3.68%	4.74%	5,79%	6.84%	# con/	a bear	10.0001
2 Agr. Prod.	1.06%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%		7.89%	8.95%	10.00%
3 AgServ For. Fish	0.11%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53% 20.53%	23.68%	26.84%	30,00%
4 Mining	3.89%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%		23.68%	26.84%	30.00%
5 Construction	5.52%	0.00%	0.00%	0.00%	0.00%	0.00%		6.84%	7.89%	8,95%	10.00%
6 Food Tobacco	2.41%	1.32%	3.95%	6.58%	9.21%	11.84%	0.00%	0.00%	0.00%	0.00%	0.00%
7 Textile Goods	0,37%	1.05%	3.16%	5. <b>26</b> %	7.37%		14.47%	17.11%	19.74%	22.37%	25.00%
8 Misc Text, Prod.	0.73%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
9 Lumber & Wood	0.52%	1.05%	3.16%	5.26%	7.37% 7.37%	9.47%	11.58%	13,68%	15.79%	17.89%	20.00%
10 Furniture	0.34%	1.05%	3.16%		7.37%	9.47%	11.58%	13.68%	15,79%	17.89%	20.00%
11 Pulp & Paper	0.87%	2.11%	6.32%	5.26%	7.37%	9.47%	11.58%	13,68%	15.79%	17.89%	20.00%
12 Print & Publish	1.31%	1.05%	3.16%	10.53%	14.74%	18,95%	23.16%	27.37%	31.58%	35,79%	40.00%
13 Chemical & Drugs	1.40%	4.74%		5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
14 Petrol. Refining	0.96%		14.21%	23.68%	33.16%	42,63%	52.11%	61.58%	71.05%	80,53%	90.00%
15 Rubber & Plastic	1.03%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
16 Leather Prods.		2.63%	7.89%	13.16%	18.42%	23.68%	28,95%	34.21%	39.47%	44.74%	50.00%
17 Glass Stone Clay	0.12%	1.05%	3,16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
18 Prim. Metal Prod.	0.62%	2.63%	7.89%	13,16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50,00%
19 Fab. Metal Prod.	1.04%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50,00%
	1.64%	2.63%	7.89%	13.16%	18.42%	23,68%	28.95%	34.21%	39.47%	44.74%	50,00%
	1.56%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50,00%
	2.52%	2.63%	7,89%	13.16%	18.42%	23.68%	28,95%	34.21%	39.47%	44.74%	50.00%
22 Transport Eq.	2.62%	2.63%	7.89%	13,16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
23 Instruments	0.68%	3.95%	11.84%	19.74%	27.63%	35.53%	43,42%	51.32%	59.21%	67.11%	75.00%
24 Misc. Manufact,	0.69%	2.63%	7.89%	13,16%	18.42%	23.68%	28.95%	34.21%	39.47%		
25 Transp & Whse.	3.46%	0.00%	0.00%	0.00%	0,00%	0.00%	0.00%	0.00%	0,00%	44.74%	50.00%
26 Utilities	5.89%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%		0.00%	0.00%
27 Wholesale Trade	5.63%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%		31.58%	35.79%	40.00%
28 Retail Trade	5.63%	1.05%	3.16%	5.26%	7.37%	9.47%		6.84%	7.89%	8.95%	10.00%
29 F.I.R.E.	16,64%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
30 Pers./Prof Serv.	8.03%	1.05%	3.16%	5.26%	7.37%		11.58%	13.68%	15.79%	17.89%	20.00%
31 Eating Drinking	2.12%	2.11%	6.32%	10.53%		9.47%	11.58%	13.68%	15,79%	17.89%	20.00%
32 Auto Serv.	1.09%	0.26%	0.79%		14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
33 Amuse & Rec.	0.70%	2.11%		1.32%	1.84%	2.37%	2.89%	3.42%	3.95%	4.47%	5,00%
34 Health Ed. Soc.	6.30%	1.05%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
35 Govt & Govt Ind.	11.79%		3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
36 Households	0.25%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20,00%
		1.84%	5.53%	9.21%	12.89%	16.58%	20.26%	23.95%	27.63%	31.32%	35.00%
TOTAL	100.00%	1.68%	5.04%	6.41%	11.77%	15.13%	18.49%	21.86%	25,22%	28,58%	31,94%
		Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	20.55% Avg.	Total V.A
•		•						<b>-</b>	<b>- u-</b>	· · · · · · · · ·	Pct. V.A.

Table D-5 Percent Value-Added Lost Due to Specified Percent Loss of Highways Lifeline

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L/L Capacity Loss>	U.S. Econ. Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1 Livestock	0.45%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
2 Agr. Prod/	1.06%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
3 AgServ For, Fish	0.11%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
4 Mining	3.89%	1.84%	5.53%	9.21%	12.89%	16.58%	20.26%	23.95%	27.63%	31.32%	35.00%
5 Construction	5.52%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
6 Food Tobacco	2.41%	4.21%	12.63%	21.05%	29,47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
7 Textile Goods	0.37%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
8 Misc Text. Prod.	0.73%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
9 Lumber & Wood	0.52%	4.74%	14.21%	23.68%	33.16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
10 Furniture	0.34%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
11 Pulp & Paper	0.87%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80,00%
12 Print & Publish	1.31%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
13 Chemical & Drugs	1.40%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
14 Petrol. Refining	0.96%	4.74%	14.21%	23.68%	33,16%	42.63%	52.11%	61.58%	71.05%	80.53%	90.00%
15 Rubber & Plastic	1.03%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
16 Leather Prods.	0.12%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
17 Glass Stone Clay	0.62%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
18 Prim. Metal Prod.	1.04%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
19 Fab. Metal Prod.	1.64%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
20 Mach, Exc. Elec.	1.56%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
21 Elec. & Electron	2.52%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
22 Transport Eq.	2.62%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
23 Instruments	0.68%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
24 Misc. Manufact.	0.69%	3.95%	11.84%	19.74%	27.63%	35.53%	43.42%	51.32%	59.21%	67.11%	75.00%
25 Transp & Whse.	3.46%	4.21%	12.63%	21.05%	29.47%	37.89%	46.32%	54.74%	63.16%	71.58%	80.00%
26 Utilities	5.89%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
27 Wholesale Trade	5.63%	3.68%	11.05%	18.42%	25.79%	33.16%	40.53%	47.89%	55.26%	62.63%	70.00%
28 Retail Trade	5.63%	2.89%	8.68%	14.47%	20.26%	26.05%	31.84%	37.63%	43.42%	49.21%	55.00%
29 F.I.R.E.	16.64%	2.37%	7.11%	11.84%	16.58%	21.32%	26.05%	30.79%	35.53%	40.26%	45.00%
30 Pers./Prof. Serv.	8.03%	2.37%	7.11%	11.84%	16.58%	21.32%	26.05%	30.79%	35.53%	40.26%	45.00%
31 Eating Drinking	2.12%	2.63%	7.89%	13.16%	18.42%	23.68%	28,95%	34.21%	39.47%	44.74%	50.00%
32 Auto Serv.	1.09%	2.89%	8.68%	14.47%	20.26%	26.05%	31.84%	37.63%	43.42%	49.21%	55.00%
33 Amuse & Rec.	0.70%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	44.74%	50.00%
34 Health Ed. Soc.	6.30%	2.89%	8.68%	14.47%	20.26%	26.05%	31.84%	37.63%	43.42%	49.21%	55.00%
35 Govt & Govt Ind.	11.79%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	30.00%
36 Households	0.25%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
TOTAL	100.00%	3.50%	10.50%	17.51%	24.51%	31.51%	38.52%	45.52%	52.52%	59.52%	66.53%
		Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Total V.A
									· · · · · ·		Pct. V.A.

Table D-6 Percent Value-Added Lost Due to Specified Percent Loss of Railroads Lifeline

		U.S. Econ.										
L/L Ca <sub>l</sub>	pacity Loss>	Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1 Liv	estack	0.45%	0.440/	D 500/								
	r. Prod.	1.06%	2.11% 2.11%	6.32%	10,53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00
	Serv For, Fish	0.11%		6,32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00
4 Min		3,89%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00
	nstruction	5.52%	1.84%	5,53%	9.21%	12,89%	16,58%	20.26%	23.95%	27.63%	31.32%	35.00
6 For	od Tobacco	2.41%	0.26%	0.79%	1.32%	1.84%	2.37%	2.89%	3.42%	3.95%	4.47%	5,00
	ktile Goods	0.37%	1.05%	3,16%	5,26%	7.37%	9,47%	11.58%	13.68%	15.79%	17.89%	20.00
	c Text. Prod.		1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00
	nber & Wood	0.73%	1.05%	3.16%	5.26%	7,37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00
	niture	0.52%	2.11%	6.32%	10,53%	14.74%	18.95%	23.16%	27.37%	31.58%	35,79%	40,00
	p & Paper	0.34%	1.05%	3,16%	5,26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00
ti Full 10 Dele	p « raper nt & Publish	0.87%	2.37%	7.11%	11.84%	16.58%	21,32%	26.05%	30.79%	35.53%	40.26%	45.00
13 Che	n & Publish	1.31%	1.05%	3.16%	5,26%	7,37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00
to Offe	anneal	1.40%	1.05%	3.16%	5.26%	7.37%	9.47%	11,58%	13.68%	15.79%	17.89%	
	rol: Refining	0.96%	2.11%	6,32%	10.53%	14.74%	18.95%	23.16%	27.97%	31.58%		20.00
15 Ruk	ober & Plastic	1.03%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13,68%	15.79%	35.79%	40.00
	ther Prods.	0.12%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00
7 Gla	ss Stone Clay	0.62%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00
	n. Metal Prod.	1.04%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	34.21%	39.47%	17.89%	20.00
	Metal Prod.	1.64%	2.37%	7.11%	11.84%	16.58%	21.32%	26.05%	30.79%		44.74%	50.00
	ch. Exc. Elec.	1.56%	2.37%	7.11%	11.84%	16.58%	21.32%	26.05%	30.79%	35.53%	40.26%	45.00
	c. & Electron	2.52%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%		35.53%	40.26%	45.00
22 Tran	nsport Eq.	2:62%	2.37%	7.11%	11.84%	16.58%	21.32%		13.68%	15.79%	17.89%	20.00
3 Inst	ruments	0.68%	0.26%	0.79%	1.32%	1.84%	2.37%	26.05% 2.89%	30.79%	35.53%	40.26%	45.00
4 Misc	c. Manufact.	0.69%	1.05%	3.16%	5.26%	7.37%	9.47%		3.42%	3.95%	4.47%	5.00
	nsp & Whse,	3.46%	1.58%	4.74%	7.89%	11.05%		11.58%	13.68%	15.79%	17.89%	20,00
6 Utilii		5.89%	0.00%	0.00%	0.00%		14.21%	17.37%	20.53%	23.68%	26.84%	30.00
7 Who	olesale Trade	5.63%	0.79%	2,37%	3.95%	0. <b>00%</b> 5.53%	0.00%	0,00%	0,00%	0.00%	0.00%	0,00
8 Reta	ail Trade	5.63%	1.05%	3.16%	5.26%		7.11%	8.68%	10.26%	11.84%	13.42%	15.00
9 F.I.F	₹.Ε.	16.64%	0.53%	1.58%	3.26% 2.63%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00
0 Pers	s./Prof. Serv.	8.03%	0.53%	1.58%		3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00
1 Eatip	ng Drinking	2.12%	0.26%	0.79%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00
2 Auto	Serv.	1.09%	0.20%	0.78%	1.32%	1.84%	2.37%	2.89%	3.42%	3.95%	4.47%	5.00
3 Amu	ise & Rec	0.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00
4 Heal	lth Ed. Soc.	6.30%	0.26%	0.79%	1.32%	1.84%	2.37%	2.89%	3.42%	3.95%	4.47%	5,00
5 Gov	t & Govt Ind.	11.79%		0.79%	1.32%	1.84%	2.37%	2.89%	3.42%	3.95%	4.47%	5.00
6 Hous	seholds	0.25%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10,00
			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00
OTAL		100.00%	1.18%	3.53%	5.88%	8.24%	10.59%	12.95%	15.30%	17.65%	20.01%	22.36
			Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Total V.

Table D-7 Percent Value-Added Lost Due to Specified Percent Loss of Sanitary Sewer Lifeline

L/L Capacity Loss>	Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
						* * * *			7		4.11
1 Livestock	0.45%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%
2 Agr. Prod.	1.06%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%
3 AgServ For Fish	0.11%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%
4 Mining	3.89%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-2.03%
5 Construction	5.52%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%
6 Food Tobacco	2.41%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%
7 Textile Goods	0.37%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	3.68%	-3.68%	-3.68%
8 Misc Text Prod.	0.73%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%	-3.68%
9 Lumber & Wood	0.52%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-3.66% -2.63%	-2.63%
10 Furniture	0.34%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63% -2.63%	-2.63%	-2.63%	-2.63%
11 Pulp & Paper	0.87%	-4.21%	-4.21%	-4.21%	-4.21%	-2.03% -4.21%	-4.21%	-2.03 <i>%</i> -4.21%	-2.03% -4.21%	-4.21%	-4.21%
12 Print & Publish	1.31%	-1.58%	-1.58%	-1.58%	-1.58%	-1.58%	-1.58%	-4.21% -1.58%	-4.21% -1.58%		-1.58%
13 Chemical & Drugs	1.40%	-4.21%	-4.21%	-4.21%	-4.21%	-1.35 <i>%</i> -4.21%	-4.21%	-4.21%	-1.36% -4.21%	-1.58% -4.21%	-1.56% -4.21%
14 Petrol Refining	0.96%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-4.21% -2.63%			
15 Rubber & Plastic	1.03%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% 0.60%	-2.63% -2.63%
16 Leather Prods.	0.12%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%
17 Glass Stone Clay	0.62%	-2.63%	-2.63%	-2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%	-2.63% -2.63%
18 Prim. Metal Prod.	1.04%	-4.21%	-4.21%	-4.21%	-2.03 <i>%</i> -4.21%	-2.03 <i>%</i> -4.21%	-4.21%	-2.03% -4.21%	-2.03% -4.21%	-2.63% -4.21%	-2.037 -4.21%
19 Fab. Metal Prod.	1.64%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21% -4.21%	-4.21% -4.21%	-4.21% -4.21%	-4.21% -4.21%	-4.21% -4.21%	-4.21% -4.21%
20 Mach Exc. Elec.	1.56%	-4.21%	-4.21%	-4.21% -4.21%	-4.21%	-4.21% -4.21%	-4.21% -4.21%	-4.21% -4.21%	-4.21% -4.21%		-4.21% -4.21%
21 Elec. & Electron	2.52%	-4.74%	-4.74%	-4.74%	-4.74%	-4.21% -4.74%	-4.21% -4.74%	-4.74%	-4.21% -4.74%	-4.21% -4.74%	
22 Transport Eq.	2.62%	-4.21%	-4.21%	-4.21%	-4.21%	-4.74% -4.21%					-4.74%
23 Instruments	0.68%	-4.21% -3.16%	-4.21% -3.16%	-4.21% -3.16%	-4.21% -3.16%	-4.21% -3.16%	-4.21% -3.16%	-4.21%	-4.21% -4.20%	-4.21%	-4.219
24 Misc. Manufact.	0.69%	-3.16% -3.16%	-3.16% -3.16%					-3.16%	-3.16%	-3.16%	-3.16%
25 Transp & Whse.	3.46%	-3.16% -0.53%	-3.16% -0.53%	-3,16%	-3.16%	-3.16%	-3.16%	-3.16%	-3.16%	-3.16%	-3.16%
26 Utilities	5.89%	-0.55% -1.26%	-0.55% -1.26%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%
27 Wholesale Trade	5.63%	-1.26% -0.53%	-0.53%	-1.26%	-1.26%	-1.26%	-1.26%	-1.26%	-1.26%	-1.26%	-1.26%
28 Retail Trade	5.63%	-0.53% -1.05%		-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%	-0.53%
29 F.I.R.E.	16.64%	-1.05% -1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%
30 Pers./Prof Serv.	8.03%	-1.05% -1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%
31 Eating Drinking	2.12%	-1.05% -4.21%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%
32 Auto Serv.	1.09%		-4.21%	-4.21% 4.05%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%
33 Amuse & Rec.	0.70%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%
34 Health Ed. Soc.	6.30%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%
35 Govt & Govt Ind.	6.30% 11.79%	-4.21% 1.05m	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%	-4.21%
36 Households		-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%	-1.05%
	0.25%	-3.95%	-3.95%	-3.95%	-3.95%	-3.95%	-3.95%	-3.95%	-3,95%	-3.95%	-3.95%
TOTAL	100.00%	-2.69%	-2.69%	-2.69%	-2.69%	-2.69%	-2.69%	-2.69%	-2.69%	-2.69%	-2.69%
*		Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Total V.A

Table D-8 Percent Value-Added Lost Due to Specified Percent Loss of Air Transportation Lifeline

•	U.S. Econ.										•
L/L Capacity Loss>	Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
	- *				***						
1 Livestock	0.45%	0.53%	1.58%	2.63%	3.68%	4 5 407	**				
2 Agr. Prod.	1.06%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
<ol><li>AgServ For, Fish</li></ol>	0.11%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
4 Mining	3.89%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10,00%
5 Construction	5,52%	0.00%	0.00%	0.00%	0.00%	4.74%	5.79%	6,84%	7.89%	8.95%	10.00%
6 Food Tobacco	2.41%	1.05%	3.16%	5.26%	7.37%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7 Textile Goods	0.37%	1.05%	3.16%	5.26%	7.37% 7.37%	9.47%	11.58%	13,68%	15.79%	17.89%	20.00%
8 Misc Text. Prod.	0.73%	1.05%	3.16%	5.26%		9.47%	11.58%	13.68%	15.79%	17.89%	20,00%
9 Lumber & Wood	0.52%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20,00%
10 Furniture	0.34%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
11 Pulp & Paper	0.87%	0.53%	1.58%	2,63%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
12 Print & Publish	1.31%	1.05%	3.16%		3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10,00%
13 Chemical & Drugs	1.40%	1.05%	3.16% 3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
14 Petrol. Refining	0.96%	0.00%		5.26%	7.37%	9.47%	11,58%	13.68%	15.79%	17.89%	20.00%
15 Rubber & Plastic	1.03%	1.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0,00%	0.00%	0.00%	0.00%
16 Leather Prods.	0.12%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
17 Glass Stone Clay	0.62%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
18 Prim. Metal Prod.	1.04%		3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
19 Fab. Metal Prod.	1.64%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
20 Mach. Exc. Elec.	1.56%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
21 Elec. & Electron	2.52%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
22 Transport Eq.		1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	
23 Instruments	2.62%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	30,00%
24 Misc. Manufact.	0.68%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%		30.00%
25 Transp & Whse.	0.69%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	35.79%	40.00%
26 Utilities	3.46%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	17.89%	20.00%
27 Wholesale Trade	5.89%	0.00%	0.00%	0,00%	0.00%	0.00%	0.00%	0.00%	0.00%	26.84%	30.00%
26 Retail Trade	5.63%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	0.00% 4 <i>0.70</i> 04	0.00%	0.00%
29 F.I.R.E.	5.63%	1.05%	3,16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
	16.64%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
	8.03%	1.05%	3,16%	5.26%	7.37%	9.47%	11.58%		15.79%	17.89%	20.00%
31 Eating Drinking	2.12%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	13.68%	15.79%	17.89%	20.00%
32 Auto Serv.	1.09%	0,00%	0.00%	0.00%	0,00%	0.00%		27.37%	31.58%	35.79%	40.00%
33 Amuse & Rec.	0.70%	2.11%	6.32%	10,53%	14.74%	18.95%	0.00%	0.00%	0.00%	0.00%	0.00%
34 Health Ed. Soc.	6.30%	0.53%	1.58%	2.63%	3,68%	4.74%	23.16%	27.37%	31.58%	35.79%	40.00%
35 Govt & Govt. Ind.	11.79%	1.05%	3.16%	5.26%	7.37%		5.79%	6.84%	7.89%	8.95%	10.00%
36 Households	0,25%	0.00%	0.00%	0.00%	0.00%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
TOTAL	ton non				U.W/7a	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OWE	100,00%	0.92%	2.76%	4.61%	6.45%	8.29%	10.13%	11.97%	10.000/	45 555	
1		Avg.	Avg.	Avg.	Avg.	Avg.	Avg.		13.82%	15.66%	17.50%
		•		. <del></del>	, <del>, ,</del> ,		rary.	Avg.	Avg.	Avg.	Total V.A Pct, V.A.

Table D-9 Percent Value-Added Lost Due to Specified Percent Loss of Water Transportation Lifeline (Ports)

		in the	1 8 8		* . W						
L/L Capacity Loss>	U.S. Econ. T Value Added (Percent)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
	Legenty _								w <sup>2</sup>		
					and the second			4 1 4 1 4	54 F 14 5 7		
1 Livestock	0.45%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
2 Agr. Prod.	1.06%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35.79%	40.00%
<ul> <li>3 AgServ For, Fish</li> </ul>	0.11%	2.11%	6.32%	10.53%	14.74%	18,95%	23.16%	27.37%	31.58%	35.79%	40.00%
4 Mining	3.89%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
5 Construction	5.52%	1.05%	3.16%	5.26%	7.37%	9,47%	11.58%	13.68%	15.79%	17.89%	20.00%
6 Food Tobacco	2.41%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
7 Textile Goods	0.37%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
8 Misc Text, Prod.	0.73%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
9 Lumber & Wood	0.52%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
10 Furniture	0.34%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20,00%
11 Pulp & Paper	0.87%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	30.00%
12 Print & Publish	1.31%	1.05%	3.16%	5.26%	7.37%	9,47%	11.58%	13.68%	15.79%	17.89%	20.00%
13 Chemical & Drug		1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
14 Petrol Refining	0.96%	4.21%	12.63%	21.05%	29.47%	37.89%	46,32%	54.74%	63.16%	71.58%	80.00%
15 Rubber & Plastic	1.03%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
16 Leather Prods.	0.12%	1.05%	3.16%	5.26%	7.37%	9,47%	11.58%	13.68%	15,79%	17.89%	20.00%
17 Glass Stone Clay		1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
18 Prim. Metal Prod.	1.04%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
19 Fab. Metal Prod.	1.64%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	30,00%
20 Mach Exc. Elec.	1.56%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	30.00%
21 Elec. & Electron	2.52%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
22 Transport Eq.	2.62%	1.58%	4.74%	7.89%			17.37%	20.53%	23.68%	26.84%	30.00%
23 Instruments	0.68%	0.53%			11.05%	14.21%	5.79%	6.84%	7.89%	8.95%	10.00%
			1.58%	2.63%	3.68%	4.74%			15.79%	17.89%	20.00%
	0.69%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%		26.84%	30.00%
25 Transp & Whse.	3.46%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%		
26 Utilities	5.89%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% 20.00%
27 Wholesale Trade		1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	0.00%
28 Retail Trade	5.63%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29 F.I.R.E.	16.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0,00%
30 Pers./Prof. Serv.	8.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
31 Eating Drinking	2.12%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
32 Auto Serv.	1.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
33 Amuse & Rec.	0.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
34 Health Ed. Soc.	6.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
35 Govt & Govt Ind.	11.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
36 Households	0.25%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL	100.00%	0.99%	2.98%	4.97%	6.96%	8.95%	10.94%	12.92%	14.91%	16.90%	18.89%
	ŧ	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Total V.A Pct. V.A.

Table D-10 Percent Value-Added Lost Due to Specified Percent Loss of Telephone Lifeline

											* *
L/L Capacity Loss>	U.S. Econ. Value Added	10%	20%	30%	40%	Fans			Mar.		·
	(Percent)	· · · · · · · · · · · · · · · · · · ·		0070	4076	50%	60%	70%	80%	90%	100%
1 Livestock	0.4504					ή,					
2 Agr. Prod.	0.45%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13,68%	15.79%	17.89%	00.000
3 AgServ For. Fish	1.06%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17,89%	20.00%
4 Mining	0.11%	1.05%	3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%		20.00%
5 Construction	3.89%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	17.89%	20.00%
6 Food Tobacco	5.52%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
- + + I RRHOOD	2.41%	0.79%	2.37%	3.95%	5,53%	7.11%	8.68%	10.26%		8.95%	10.00%
	0.37%	0.79%	2.37%	3.95%	5,53%	7.11%	8,68%	10.26%	11.84%	13.42%	15.00%
8 Misc Text, Prod.	0.73%	0.79%	2.37%	3,95%	5.53%	7.11%	8,68%		11.84%	13.42%	15.00%
9 Lumber & Wood	0.52%	0.79%	2.37%	3.95%	5,53%	7.11%	8.68%	10.26%	11.84%	13.42%	15.00%
10 Furniture	0.34%	0.79%	2.37%	3.95%	5.53%	7.11%		10.26%	11.84%	13.42%	15,00%
11 Pulp & Paper	0.87%	0.53%	1.58%	2.63%	3.68%		8.68%	10.26%	11.84%	13.42%	15,00%
12 Print & Publish	1.31%	0.79%	2.37%	3.95%	5.53%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
13 Chemical & Drugs	1.40%	0.79%	2.37%	3.95%	5.53% 5.53%	7.11%	8.68%	10.26%	11.84%	13.42%	15.00%
14 Petrol. Refining	0.96%	0.53%	1.58%	2.63%		7.11%	8.68%	10.26%	11.84%	13.42%	15,00%
15 Rubber & Plastic	1.03%	0.79%	2.37%		3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
16 Leather Prods.	0.12%	0.79%	2.37%	3.95%	5.53%	7.11%	8.68%	10.26%	11.84%	13.42%	15,00%
17 Glass Stone Clay	0.62%	0.79%	2.37%	3.95%	5.53%	7.11%	8.68%	10.26%	11.84%	13.42%	15,00%
18 Prim. Metal Prod.	1.04%	0.79%	4.0770 0.070/	3.95%	5.53%	7.11%	8.68%	10.26%	11.84%	13.42%	15.00%
19 Fab. Metal Prod.	1.64%		2.37%	3.95%	5.53%	7.11%	8,68%	10.26%	11.84%	13.42%	15.00%
20 Mach. Exc. Elec.	1.56%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8.95%	10.00%
21 Elec. & Electron		0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8,95%	10,00%
22 Transport Eq.	2.52%	0.79%	2.37%	3,95%	5,53%	7.11%	8.68%	10,26%	11.84%	13.42%	
23 Instruments	2.62%	0.53%	1.58%	2.63%	3.68%	4.74%	5.79%	6.84%	7.89%	8,95%	15.00%
24 Misc. Manufact.	0.68%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	10.00%
25 Transo & Whee	0.69%	0.79%	2.37%	3.95%	5.53%	7.11%	8.68%	10.26%	11.84%		30,00%
- 111001	3.46%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%		13.42%	15.00%
	5.89%	1.58%	4.74%	7.89%	11.05%	14.21%	17.37%	20.53%	23.68%	26.84%	30.00%
	5.63%	2.63%	7.89%	13.16%	18.42%	23.68%	28.95%	49.00% 04.040/	23.68%	26,84%	30,00%
28 Retail Trade	5.63%	2.63%	7.89%	13.16%	18.42%	23,68%	28,95%	34.21%	39.47%	44.74%	50,00%
29 F.I.R.E.	16.64%	3.16%	9.47%	15.79%	22.11%	28.42%	20,95% 34.74%	34.21%	39,47%	44.74%	50.00%
30 Pers./Prof. Serv.	8.03%	2.11%	6.32%	10.53%	14.74%	18.95%		41.05%	47.37%	53.68%	60.00%
31 Eating Drinking	2.12%	2.11%	6.32%	10.53%	14.74%	18.95%	23.16%	27.37%	31.58%	35,79%	40.00%
32 Auto Serv.	1.09%	2.11%	6.32%	10.53%	14.74%		23.16%	27.37%	31.58%	35.79%	40,00%
33 Amuse & Rec.	0.70%	2.11%	6.32%	10.53%		18.95%	23.16%	27.37%	31,58%	35.79%	40.00%
34 Health Ed. Soc.	6.30%	0.79%	2,37%	3.95%	14.74%	18.95%	23.16%	27.37%	31,58%	35.79%	40.00%
35 Govt & Govt Ind.	11.79%	1.05%	3.16%		5.53%	7.11%	8.68%	10.26%	11.84%	13,42%	15.00%
36 Households	0.25%	1.05%		5,26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
TOTAL			3.16%	5.26%	7.37%	9.47%	11.58%	13.68%	15.79%	17.89%	20.00%
rscink .	100.00%	1.15% Avg.	3.46%	5.77%	8.08%	10.39%	12.70%	15.01%	17.32%	19.63%	21.94%
		wā.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Avg.	Total V.A
•					- 2			-		, , ,	Pot. V.A.

Table D-11 Residual Value-Added After Loss of Capacity--Water Supply Lifeline

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0%		10%		20%		30%	40%	50%	60%	70%	80%	90%	100%
											1 1 1 1	: : : : : : : : : : : : : : : : : : :	
0.45%		0.44%	•	0.42%	1.5	0.40%	0.38%	0.36%	0.34%	0.31%	0.29%	0.27%	0.25%
1.06%		1.02%		0.94%	1.	0.86%	0.79%	0.71%	0.63%	0.55%	0.47%	0.40%	0.32%
0.11%		0.11%		0.10%		0.10%	0.09%	0.09%	0.08%	0.08%	0.07%	0.07%	0.06%
3.89%	:	3.86%		3.80%		3.74%	3.67%	3.61%	3.55%	3.49%	3.43%	3.37%	3.31%
5.52%		5.37%		5.08%		4.79%	4.50%	4.21%	3.92%	3,63%	3.34%	3.05%	2.76%
2.41%		2,32%		2.14%		1.96%	1.79%	1.61%	1.43%	1.25%	1.08%	0.90%	0.72%
0.37%		0.36%		0.33%		0.30%	0.28%	0.25%	0.22%	0.19%	0.17%	0.14%	0.11%
0.73%		0.70%	* -	0.65%		0.59%	0.54%	0.49%	0.43%	0.38%	0.33%	0.14% 0.27%	0.22%
0.52%	-	0.50%		0.48%		0.45%	0.42%	0:39%	0.37%	0.34%	0.31%	0.29%	0.26%
0.34%		0.33%		0.31%		0.43%	0.28%	0.35%	0.24%	0.22%	0.21%	0.19%	0.17%
0.87%		0.84%		0.79%		0,2376	0.68%	0.62%	0.57%	0.51%	0.46%	0.40%	0.35%
1.31%		1.29%		1.25%		0.73% 1.21%	1.17%	1.13%	1.08%	1.04%	1.00%	0.96%	0.92%
1.40%		1.34%		1.23%		1.11%	0.99%	0.87%	0.75%	0.64%	0.52%	0.40%	0.28%
0.96%		0,94%		0.89%		0.84%	0.79%	0.07%	0.68%	0,04,78	0.58%	0.53%	0.48%
1.03%	× .	1.00%		0.85%				0.73%:	0.73%	0.63% 0.68%	0.62%	0.57%	0,51%
0.12%		0.12%		0.93%		0.89%	0.84%	0.79%		0.08%	0.02%	0.07%	0.06%
0.12%		0.60%	·			0.11%	0.10%	0.09%	0.09%	0.05%	0.37%	0.34%	0.31%
1.04%		0.60%		0.57%		0.54%	0.50%	0.47%	0.44%	0.41% 0.40%	0.30%	0.20%	0.10%
				0.89%		0.79%	0.70%	0.60%	0.50%		0.30%	0.20%	0.10%
1.64%		1.57%		1,43%		1.30%	1.16%	1.02%	0,88%	0.74%	0.60%	0.47%	
1,56%		1.51%		1.41%		1.31%	1.22%	1.12%	1.02%	0.92%	0.82%	0.72% 0.49%	0.62%
2.52%		2.40%		2.16%		1.92%	1.69%	1.45%	1.21%	0.97%	0.73%	0.49%	0.25%
2.62%		2.54%		2.37%	100	2.21%	2.04%	1.87%	1.71%	1.54%	1.38%	1.21%	1.05%
0.68%	4.2	0.65%		0.58%		0.52%	0.45%	0.39%	0.33%	0.26%	0.20%	0.13%	0.07%
0.69%		0.67%	£.	0.62%		0.58%	0.54%	0.49%	0.45%	0.41%	0.36%	0.32%	0.27%
3.46%		3.42%		3,35%		3.28%	3.21%	3.13%	3.06%	2.99%	2.91%	2.84%	2.77%
5.89%		5.76%		5.51%		5.27%	5.02%	4,77%	4.52%	4.28%	4.03%	3.78%	3.53%
5.63%		5.57% 5.57%	4.4	5.46%		5.34%	5.22%	5.10%	4.98%	4.86%	4.74%	4.63% 4.63%	4.51%
5.63%		5.57%		5.46%		5.34%	5.22%	5.10%	4.98%	4.86%	4.74%	4.63%	4.51%
16.64%		16.47%		16.12%		15.77%	15.42%	15.07%	14.72%	14.36%	14.01%	13.66%	13.31%
8.03%		7.95%	100	7.78%		7.61%	7.44%	7.27%	7.10%	6.93%	6.76%	6.59%	6.42%
2.12%		2.03%		1.85%		1.67%	1.50%	1.32%	1.14%	0.96%	0.78%	0.60%	0.42%
1.09%		1.09%		1.08%		1.07%	1.05%	1.04%	1.03%	1.02%	1.01%	1.00%	0.99%
0.70%		0.67%		0.61%		0.55%	0.49%	0.43%	0.37%	0.32%	0.26%	0.20%	0.14%
6.30%		6.17%		5.90%		5.64%	5.37%	5.11%	4.84%	4.57%	4.31%	4.04%	3.78%
11.79%		11.64%		11.33%		11.02%	10.70%	10.39%	10,08%	9.77%	9.46%	9.15%	8.84%
0.25%		0.25%		0.24%	1.53	0.22%	0.21%	0.20%	0.19%	0.18%	0.17%	0.16%	0.15%
100.00%		98.06%		94.18%		90.30%	86.43%	82.55%	78.67%	74.79%	70.91%	67.04%	63.16%
100%		98%		94%		90%	86%	83%	79%	75%	71%	67%	63%

Table D-12 Residual Value-Added After Loss of Capacity--Electric Lifeline

<del></del>							•	•		•
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0,44%	0.42%	0,á9%	0.37%	0,35%	() (h.do/	0.000/	A A-3-/	0.0504	
1.06%	1.03%	0,98%	0.92%	0.86%	0.81%	0,32% 0,75%	0.30%	0.27%	0,25%	0.23%
0.11%	0,11%	0.10%	0.10%	0.09%	0.08%	0.75%	0.70%	0.64%	0.59%	0.53%
3.89%	3.70%	3.34%	2.97%	2.60%	2.23%	1.86%	0.07%	0.07%	0.06%	0.06%
5.52%	5.40%	5,17%	4.94%	4.71%	4.47%	4.24%	1.49%	1.13%	0.76%	0.39%
2.41%	2.29%	2.06%	1.84%	1.61%	1.38%	1.15%	4.01%	3.78%	3.54%	3.31%
0.37%	0.35%	0.31%	0.27%	0.24%	0.20%		0.92%	0.70%	0.47%	0.24%
0.73%	0.69%	0.61%	0.54%	0.46%	0.38%	0.16%	0.12%	0.08%	0.04%	0.00%
0.52%	0.49%	0.43%	0.38%	0,33%	0.27%	0.31%	0.23%	0.15%	0.08%	0.00%
0.34%	0.32%	0.29%	0.25%	0.21%	0.27%	0.22%	0.16%	0.11%	0.05%	0.00%
0.87%	0.83%	0.73%	0.64%	0.55%	0.18%	0.14%	0.11%	0.07%	0.04%	0.00%
1.31%	1.24%	1.10%	0.97%	0.83%	0.46%	0.37%	0.28%	0.18%	0.09%	0,00%
1.40%	1.34%	1.20%	1.07%		0.69%	0.55%	0.41%	0.28%	0.14%	0.00%
0.96%	0.91%	0.81%	0.71%	0.94% 0.61%	0.81%	0.67%	0.54%	0.41%	0.27%	0.14%
1.03%	0.98%	0.87%	0.76%	0.65%	0.51%	0.41%	0.30%	0.20%	0.10%	0.00%
0.12%	0.12%	0.10%	0.09%		0.54%	0.43%	0.33%	0.22%	0.11% -	0,00%
0.62%	0.59%	0.52%	0,46%	0.08%	0.06%	0.05%	0.04%	0.03%	0.01%	0.00%
1.04%	0,99%	0.89%	0.79%	0.39%	0.33%	0.26%	0.20%	0.13%	0.07%	0.00%
1.64%	1.55%	1,38%	1.21%	0.70%	0,60%	0.50%	0.40%	0,30%	0.20%	0.10%
1.56%	1.48%	1.31%	1.61%	1.04%	0.86%	0.69%	0.52%	0.35%	0.17%	0.00%
2.52%	2.39%	2.12%	1.15%	0.99%	0.82%	0.66%	0.49%	0.33%	0.16%	0.00%
2.62%	2.48%	2.21%	1.86%	1.59%	1.33%	1.06%	0.80%	0.53%	0.27%	0.00%
0.68%	0.64%	0.57%	1.93%	1.65%	1.38%	1.10%	0.83%	0.55%	0.28%	0.00%
0.69%	0.65%	0.57%	0.50%	0.43%	0.36%	0.29%	0.21%	0.14%	0.07%	0.00%
3.46%	3.41%	3,30%	0.51%	0.43%	0.36%	0.29%	0.22%	0.14%	0.07%	0.00%
5.89%	5,64%	5.14%	3.19%	3.08%	2.97%	2.86%	2.75%	2.64%	2,53%	2,42%
5.63%	5.37%	0, 147¢ 4 000/	4.65%	4.15%	3.66%	3.16%	2.66%	2.17%	1.67%	1.18%
5.63%	5.37%	4.83% 4.83%	4.30%	3.77%	3.23%	2,70%	2.16%	1.63%	1.10%	0.56%
16.64%	15.85%	4.83%	4.30%	3.77%	3.23%	2.70%	2.16%	1.63%	1.10%	0.56%
8.03%	10.00%	14.28%	12.70%	11.12%	9.55%	7.97%	6.39%	4.82%	3.24%	1.66%
2.12%	7.65%	6.89%	6.13%	5.37%	4.61%	3.85%	3.09%	2.32%	1.56%	0.80%
1.09%	2.03%	1.85%	1,67%	1.50%	1.32%	1.14%	0.96%	0.78%	0.60%	0.42%
	1.04%	0.94%	0.84%	0.73%	0.63%	0.52%	0.42%	0.32%	0.21%	0.11%
0.70%	0.67%	0.61%	0.55%	0.49%	0.43%	0.37%	0.32%	0.26%	0.20%	0.14%
6.30%	6.03%	5.50%	4.97%	4.44%	3.91%	3.38%	2.85%	2.32%	1.79%	1.26%
11.79%	11.42%	10.67%	9.93%	9.18%	8.44%	7.70%	6,95%	6.21%	5.46%	4,72%
0.25%	0.24%	0.22%	0.20%	0.18%	0.16%	0.13%	0.11%	0.09%	0.07%	0.05%
100%	95.73%	87.19%	78.66%	70.12%	61.58%	53.04%	44.50%	35,97%	27.43%	18,89%
100%	96%	87%	79%	70%	62%	53%	45%	36%	27%	19%

Table D-13 Residual Value-Added After Loss of Capacity--Oil Supply Lifeline

· <del></del>				<del></del>				<u> </u>	$t = (1 + \epsilon_{i,k}) \cdot 1$	
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0.44%	0.42%	0.39%	0.37%	0.35%					
1.06%	1.01%	0.93%	0.84%	0.75%	0.66%	0.32%	0.30%	0.27%	0.25%	0.23%
0.11%	0.11%	0.10%	0.09%	0.08%		0.57%	0.48%	0.39%	0.30%	0.21%
3.89%	3.70%	3.34%	2.97%	2.60%	0.07%	0.06%	0.05%	0.04%	0.03%	0.02%
5.52%	5.26%	4.73%	4.21%	3.69%	2.23%	1.86%	1.49%	1.13%	0.76%	0.39%
2.41%	2.34%	2.22%	2.09%		3.17%	2.64%	2.12%	1.60%	1.07%	0.55%
0.37%	0.36%	0.34%	0.32%	1.96%	1.84%	1 71%	1.58%	1.46%	1.33%	1.20%
0.73%	0.71%	0.67%	0.63%	0.30%	0.28%	0.26%	0.25%	0.23%	0.21%	0.19%
0.52%	0.50%	0.48%	0.45%	0.59%	0.55%	0.52%	0.48%	0.44%	0.40%	0.36%
0.34%	0.33%	0.31%	0.40%	0.42%	0.39%	0.37%	0.34%	0.31%	0.29%	0.26%
0.87%	0.85%	0.80%	0.29%	0.28%	0.26%	0.24%	0.22%	0.21%	0.19%	0.17%
1.31%	1.28%	1.21%	0.76%	0.71%	0.66%	0.62%	0.57%	0.53%	0.48%	0.44%
1.40%	1.37%	1.2176	1.14%	1.07%	1.00%	0.93%	0.86%	0.79%	0.48% 0.72%	0.66%
0.96%		1.29%	1.22%	1.15%	1.07%	1.00%	0.92%	0.85%	0.78%	0.70%
1.03%	0.91% 1.00%	0.81%	0.71%	0.61%	0.51%	0.41%	0.30%	0.20%	0.10%	0.00%
0.12%	1.00%	0.95%	0.89%	0.84%	0.79%	0.73%	0.68%	0.62%	0.57%	0.51%
0.62%	0.12%	0.11%	0.11%	0.10%	0.09%	0.09%	0.08%	0.07%	0.07%	0.06%
1.04%	0.60%	0.57%	0.54%	0.50%	0.47%	0.44%	0.41%	0.37%	0.34%	0.31%
1.64%	0.99%	0.89%	0.79%	0.70%	0.60%	0.50%	0.40%	0.30%	0.20%	0.10%
1.56%	1.60%	1.51%	1.42%	1.34%	1.25%	1.17%	1.08%	0.99%	0.91%	0.10%
	1.52%	1.44%	1.35%	1.27%	1.19%	1.11%	1.03%	0.94%	0.86%	0.78%
2.52%	2.46%	2.32%	2.19%	2.06%	1.92%	1.79%	1.66%	1.53%	1.39%	
2.62%	2.49%	2.25%	2.00%	1.75%	1.50%	1.25%	1.01%	0.76%	0.51%	1.26%
0.68%	0.66%	0.63%	0.59%	0.55%	0.52%	0.48%	0.45%	0.41%	0.38%	0.26%
0.69%	0.67%	0.63%	0.60%	0.56%	0.52%	0.49%	0.45%		0.38%	0.34%
3.46%	3.30%	2.97%	2.64%	2.31%	1.99%	1.66%	1.33%	0.42%	0.38%	0.34%
5.89%	5.73%	5.42%	5.11%	4.80%	4.49%	4.18%	3.87%	1.00%	0.67%	0.35%
5.63%	5.49%	5.19%	4.89%	4.60%	4.30%	4.00%	3.71%	3.56%	3.25%	2.94%
5.63%	5.37%	4.83%	4.30%	3.77%	3.23%	2.70%	2.16%	3.41%	3.11%	2.82%
16.64%	16.12%	15.07%	14.01%	12.96%	11.91%	10.86%	2.10% 9.81%	1.63%	1.10%	0.56%
8.03%	7.78%	7.27%	6.76%	6.26%	5.75%	5.24%	9.81%	8.76%	7.71%	6.66%
2.12%	2.03%	1.85%	1.67%	1.50%	1.32%	1.14%	4.73%	4.23%	3.72%	3.21%
1.09%	1.04%	0.94%	0.84%	0.73%	0.63%		0.96%	0.78%	0.60%	0.42%
0.70%	0.66%	0.60%	0.53%	0.47%	0.40%	0.52%	0.42%	0.32%	0.21%	0.11%
6.30%	6.23%	6.10%	5.97%	5.83%	5.70%	0.33%	0.27%	0.20%	0.14%	0.07%
11.79%	11.67%	11.42%	11.17%	10.92%		5.57%	5.44%	5.30%	5.17%	5.04%
0.25%	0.24%	0.23%	0.22%	0.21%	10.67%	10.43%	10.18%	9.93%	9.68%	9.43%
		V.EV/V	U.LL 10	U.2176	0.19%	0.18%	0.17%	0.15%	0.14%	0.13%
00.00%	96.94%	90.83%	84.71%	78.60%	72,48%	66.37%	CO OFW	E4.446 :		
100%	97%	91%	85%	79%	72%	66%	60.25%	54.14%	48.02%	41.91%
	•		<del>-</del>		1 1. 10	00%	60%	54%	48%	42%

Table D-14 Residual Value-Added After Loss of Capacity--Natural Gas Lifeline

·						•	·		$f = f \cdot f$	
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0.45%	0.45%	0.44%	0.446/	A shar					
1.06%	1.04%	1.01%	0.98%	0.44%	0.43%	0.43%	0.42%	0.42%	0.41%	0.419
0.11%	0.11%	0.11%	0.10%	0.94%	0.91%	0.88%	0.84%	0.81%	0.77%	0.749
3.89%	3.87%	3.83%	3,79%	0.10%	0.09%	0.09%	0.09%	0,08%	0.08%	0.089
5.52%	5.52%	5.52%	5.52%	3.75%	3.70%	3.66%	3.62%	3.58%	3.54%	3.509
2.41%	2.37%	2.31%	2.25%	5,52%	5.52%	5.52%	5.52%	5.52%	5.52%	5.529
0.37%	0.37%	0.36%	4.40% 4.40%	2.18%	2.12%	2.06%	1.99%	1.93%	1.87%	1.809
0.73%	0.72%	0.70%	0.35%	0.35%	0.34%	0.33%	0,32% 0.63%	0.31%	0.31%	0.309
0.52%	0.51%	0.50%	0.69%	0.67%	0.66%	0.64%	0.63%	0.61%	0.60%	0.589
0.34%	0.34%	0.33%	0.49%	0.48%	0.47%	0.46%	0.45%	0.43%	0.42%	0.419
0.87%	0.85%	0.33%	0.32%	0.31%	0.31%	0.30%	0.29%	0.29%	0.28%	0.279
1.31%	1.30%	0.82%	0.78%	0.74%	0.71%	0.67%	0.63%	0.60%	0.56%	0,529
1.40%	1.34%	1.27%	1.24%	1.22%	1.19%	1.16%	1.13%	1.10%	1.08%	1.059
0.96%		1.20%	1.07%	0.94%	0.81%	0.67%	0.54%	0.41%	0.27%	0.14
1.03%	0.94%	0.89%	0.84%	0.79%	0.73%	0.68%	0.63%	0.58%	0,53%	0.489
0.12%	1.00%	0.95%	0.89%	0.84%	0.79%	0.73%	0.68%	0.62%	0.57%	0.51
).62%	0.12%	0.12%	0.12%	0.11%	0.11%	0.11%	0.11%	0.10%	0.10%	0.10
1.04%	0.60%	0.57%	0.54%	0.50%	0.47%	0.44%	0.41%	0.37%	0.34%	0.319
	1.01%	0,96%	0.90%	0.85%	0.79% 1.25%	0.74%	0.68%	0.63%	0.58%	0.529
.64%	1.60%	1.51%	1.42%	1,34%	1.25%	1.17%	1,08%	0.99%	0.91%	0.829
.56%	1,52%	1.44%	1.35%	1.27%	1.19%	1.11%	1.03%	0.94%	0.86%	0.789
2.52%	2.46%	2.32%	2.19%	2.06%	1.92%	1.79%	1.66%	1.53%	1.39%	1.269
2.62%	2.55%	2.41%	2.27%	2.14%	2.00%	1.86%	1.72%	1.59%	1.45%	1.319
0.68%	0.65%	0.60%	0.55%	0.49%	0.44%	0,38%	0.33%	0.28%	n 22%	0.179
0.69%	0.67%	0.63%	0.60%	0.56%	0.52%	0.49%	0.45%	0.42%	0.22% 0.38%	0,349
1.46%	3.46%	3,46%	3.46%	3,46%	3.46%	3.46%	9.46%	3.46%	3.46%	3,465
.89%	5,76%	5.51%	5.27%	5.02%	4.77%	4.52%	3.46% 4.28%	4.03%	3.78%	3.539
.63%	5.60%	5,54%	5.49%	5.43%	5.37%	5.31%	5.25%	5.19%	5.13%	5,079
.63%	5,57%	5.46%	5,34%	5.22%	5.10%	4.98%	4.86%	4.74%	4.63%	9,077 4 #46
.64%	16.47%	16.12%	15,77%	15.42%	15.07%	14.72%	14.36%	14.01%	13.66%	4,519
.03%	7.95%	7.78%	7.61%	7.44%	7.27%	7.10%	6.93%	6.76%	6.59%	13.319
.12%	2.08%	1.99%	1.90%	1.81%	1.72%	1.63%	1.54%	0,70% 4 AEO/	0.0976	6.429
.09%	1.09%	1.09%	1.08%	1.07%	1.07%	1.06%	1.06%	1,45% 1,05%	1.36%	1.279
.70%	0.68%	0.65%	0.62%	0.59%	0.56%	0.54%	0.51%		1.05%	1.049
.30%	6.23%	6.10%	5.97%	5.83%	5.70%	5.57%	5.44%	0.48%	0.45%	0,429
.79%	11.67%	11.42%	11.17%	10.92%	10.67%	10.43%		5.30%	5,17%	5.049
.25%	0.25%	0.24%	0.23%	0.22%	0.21%	0.20%	10.18%	9,93%	9,68%	9.439
000/					V.C. 170	U,ZU76	0.19%	0.18%	0.17%	0.169
.00%	98.72%	96,15%	93.58%	91.01%	88,45%	85,88%	83,31%	80.74%	78.17%	75,619
00%	99%	96%	94%	91%	88%	86%	83%	81%	78%	75,517

Table D-15 Residual Value-Added After Loss of Capacity--Highways Lifeline

<u>0%</u>	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0.44%	0.42%	0.39%	G 9701						
1.06%	1.01%	0.93%	0.39% 0.84%	0.37%	0.35%	0.32%	0.30%	0.27%	0.25%	0.23%
0.11%	0.11%	0.10%		0.75%	0.66%	0.57%	0.48%	0.39%	0.30%	0.21%
3.89%	3.82%	3.67%	0.09%	0.08%	0.07%	0.06%	0.05%	0.04%	0.03%	0.02%
5.52%	5.40%	5.17%	3.53%	3.39%	3.24%	3.10%	2.96%	2.81%	2.67%	2.53%
2.41%	2.31%	2.10%	4.94%	4.71%	4.47%	4.24%	4.01%	3.78%	3.54%	3,31%
0.37%	0.36%		1.90%	1.70%	1.49%	1.29%	1.09%	0.89%	0.68%	0.48%
0.73%	0.70%	0.33% 0.64%	0.30%	0.27%	0.24%	0.21%	0.18%	0.15%	0.12%	0.09%
0.52%	0.49%		0.58%	0.53%	0.47%	0.41%	0.35%	0.30%	0.24%	0.18%
0.34%	0.33%	0.44%	0.39%	0.34%	0.30%	0.25%	0.20%	0.15%	0.10%	0.05%
0.87%	0.83%	0.30%	0.27%	0.25%	0.22%	0.19%	0.16%	0.14%	0.11%	0.08%
1.31%	1.26%	0.76%	0.69%	0.61%	0.54%	0.47%	0.39%	0.32%	0.25%	0.17%
1.40%	1.34%	1.16%	1.05%	0.95%	0.85%	0.74%	0.64%	0.54%	0.43%	0.33%
0.96%	0.92%	1.23%	1.11%	0.99%	0.87%	0.75%	0.64%	0.52%	0.40%	0.28%
1.03%	0.92% 0:99%	0.83%	0.73%	0.64%	0.55%	0.46%	0.37%	0.28%	0.19%	0.10%
0.12%	0.55%	0.91%	0.83%	0.75%	0.66%	0.58%	0.50%	0.42%	0.34%	0.10%
0.62%	0.12%	0.11%	0.10%	0.09%	0.08%	0.07%	0.06%	0.05%	0.04%	0.03%
1.04%	0.59%	0.54%	0.50%	0.45%	0.40%	0.35%	0.30%	0.25%	0.20%	0.03%
1.64%	1.00%	0.91%	0.82%	0.73%	0.65%	0.56%	0.47%	0.38%	0.30%	0.13%
1.56%	1.57%	1.43%	1.30%	1.16%	1.02%	0.88%	0.74%	0.60%	0.47%	0.33%
2.52%	1.49%	1.36%	1.23%	1.10%	0.97%	0.84%	0.71%	0.57%	0.44%	0.33%
2.62%	2.42%	2.22%	2.02%	1.83%	1.63%	1.43%	1.23%	1.03%	0.83%	0.63%
0.68%	2.51%	2.29%	2.07%	1.85%	1.63%	1.41%	1.19%	0.96%	0.74%	0.52%
0.69%	0.65%	0.59%	0.54%	0.48%	0.42%	0.36%	0.31%	0.25%	0.19%	0.02%
3.46%	0.66%	0.61%	0.55%	0.50%	0.44%	0.39%	0.33%	0.28%	0.23%	0.14% 0.17%
	3.31%	3.02%	2.73%	2.44%	2.15%	1.86%	1.57%	1.27%	0.98%	
5.89%	5.76%	5.51%	5.27%	5.02%	4.77%	4.52%	4.28%	4.03%	3.78%	0.69%
5.63% 5.63%	5.43%	5.01%	4.60%	4.18%	3.77%	3.35%	2.94%	2.52%	2.11%	3.53%
	5.47%	5.14%	4.82%	4.49%	4.17%	3.84%	3.51%	3.19%	2.86%	1.69%
16.64%	16.25%	15.46%	14.67%	13,88%	13.09%	12.31%	11.52%	10.73%		2.54%
8.03%	7.84%	7.46%	7.08%	6.70%	6.32%	5.94%	5.56%	5.18%	9.94% 4.80%	9.15%
2.12%	2.06%	1.95%	1.84%	1.73%	1.62%	1.51%	1.40%	1.28%	4.00%	4.42%
1.09%	1.06%	1.00%	0.94%	0.87%	0.81%	0.75%	0.68%	0.62%	1.17%	1.06%
0.70%	0.68%	0.64%	0.60%	0.57%	0.53%	0.49%	0.46%	0.42%	0.56%	0.49%
6.30%	6.12%	5.75%	5.39%	5.02%	4.66%	4.29%	3.93%	3.56%	0.38%	0.35%
11.79%	11.60%	11.23%	10.86%	10.49%	10.12%	9.74%	9.37%	9.00%	3.20%	2.83%
0.25%	0.25%	0.24%	0.22%	0.21%	0.20%	0.19%	0.18%	9.00% 0.17%	8.63%	8.25%
00.00%	97.16%	04 4764	•			0.1070	V. 1076	U.   7%	0.16%	0.15%
100%		91.47%	85.79%	80.10%	74.41%	68.73%	63.04%	57.36%	51.67%	45.98%
. 50 /0	97%	91%	86%	<b>/ 80%</b>	74%	69%	63%	57%	52%	46%

Table D-16 Residual Value-Added After Loss of Capacity--Railroads Lifeline

0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0.44%	0.42%	0.41%	0.39%	0.37%	0.35%	ስ ስስባ/	0.040		A ALVA
1.06%	1.04%	0.99%	0.95%	0.90%	0.86%	0.35% 0.81%	0.33%	0.31%	0.29%	0.27%
0.11%	0.11%	0.10%	0.10%	0.09%	0.09%		0.77%	0.72%	0.68%	0.64%
3.89%	3.82%	3.67%	3,53%	3,39%	3.24%	0.08%	0.08%	0.08%	0.07%	0.07%
5.52%	5.50%	5.48%	5.45%	5.42%	5.24% 5.39%	3.10%	2.96%	2.81%	2.67%	2.53%
2.41%	2.38%	2.33%	2.28%	2.23%	9,39% 4 des	5.36%	5.33%	5.30%	5.27%	5.24%
0.37%	0.37%	0.36%	0.35%		2.18%	2.13%	2.08%	2.03%	1.98%	1.93%
0.73%	0.72%	0.70%	0.69%	0.35%	0.34%	0.33%	0.32%	0.31%	0.31%	0.30%
0.52%	0.50%	0.48%		0.67%	0.66%	0.64%	0.63%	0.61%	0.60%	0.58%
0.34%	0.34%	0.33%	0.46%	0.44%	0.42%	0.40%	0.37%	0.35%	0.33%	0,31%
0.87%	0.85%	0.33%	0.32%	0.31%	0.31%	0.30%	0.29%	0.29%	0.33% 0.28%	0.27%
1.31%	1.30%	0.81%	0.77%	0.73%	0.69%	0.64%	0.60%	0.56%	0.52%	0.48%
1.40%	1.30%	1.27%	1.24%	1.22%	1.19%	1.16%	1.13%	1.10%	1.08%	1.05%
0.96%	1.39%	1.36%	1.33%	1.30%	1.27%	1.24%	1.21%	1.18%	1.15%	1.12%
1.03%	0.94%	0.90%	0.86%	0.82%	0.78%	0.74%	0.70%	0.66%	0.62%	0.58%
0.12%	1.02%	1.00%	0.98%	0.95%	0.93%	0.91%	0.89%	0.87%	0.85%	0.82%
0.1 <u>2%</u>	0.12%	0.12%	0.12%	0.11%	0.11%	0.11%	0.11%	0.10%	0.10%	0.10%
0.62%	0.61%	0.60%	0.59%	0.57%	0.56%	0.55%	0.53%	0.52%	0.51%	0.49%
1.04%	1.01%	0.96%	0,90%	0.85%	0.79%	0.74%	0.68%	0.63%	0,58%	0.52%
1.64%	1.60%	1.52%	1.45%	1.37%	1.29%	1.21%	1.14%	1.06%	0.98%	0.90%
1.56%	1.52%	1.45%	1.38%	1.30%	1.23%	1.15%	1.08%	1.01%	0.93%	0.86%
2.52%	2.50%	2.44%	2.39%	2.34%	2.28%	2.23%	2.18%	2.12%	2.07%	2.02%
2.62%	2,56%	2.43%	2.31%	2.18%	2.06%	1.94%	1.81%	1.69%	2.07% 1.56%	1.44%
0.68%	0.68%	0.67%	0.67%	0.67%	0.66%	0.66%	0,66%	0.65%	0.65%	0.65%
0.69%	0.68%	0.67%	0.65%	0.64%	0.62%	0.61%	0.59%	0.58%	0.56%	0.55%
3.46%	3.41%	3.30%	3.19%	3,08%	2.97%	2.86%	2.75%	2.64%	2.53%	2.42%
5.89%	5.89%	5,89%	5.89%	5.89%	5.89%	5.89%	5.89%	5.89%	5.89%	5,89%
5.63%	5.59%	5.50%	5.41%	5.32%	5.23%	5.14%	5,06%	4.97%	0,097a 4 00p/	
5.63%	5,57%	5.46%	5.34%	5.22%	5.10%	4.98%	4.86%	4.74%	4.88% 4.63%	4,79%
16.64%	16.55%	16.38%	16,20%	16.03%	15.85%	15.68%	15.50%	15.93%	4.03%	4.51%
8.03%	7.99%	7.90%	7.82%	7.74%	7.65%	7.57%	7.48%	7.40%	15.15%	14.98%
2.12%	2.12%	2.10%	2.09%	2.08%	2.07%	2.06%	2.05%	7,40%	7.31%	7.23%
1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	4.00%	2.04%	2.03%	2.01%
0.70%	0.69%	0.69%	0.69%	0.68%	0.68%	0,68%	1.09%	1.09%	1.09%	1.09%
6.30%	6.28%	6.25%	6.22%	6.18%	6.15%	6.12%	0.67%	0.67%	0.67%	0.66%
11.79%	11.73%	11.60%	11.48%	11.36%	11.23%		6.08%	6.05%	6.02%	5.98%
0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	11.11% 0.25%	10.98%	10.86%	10.74%	10.61%
					V.CU/0	V.20%	0.25%	0.25%	0.25%	0.25%
100.00%	99.17%	97.50%	95.83%	94.16%	92.49%	90.82%	89.15%	87.48%	85.81%	84.14%
100%	99%	97%	96%	94%	92%	91%	89%	87%	86%	84%

Table D-17 Residual Value-Added After Loss of Capacity--Sanitary Sewer Lifeline

<del> </del>			·				·	1. Table 1.		
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0.46%	0.46%	0.46%	0.400						
1.06%	1.09%	1.09%	1,09%	0.46%	0.46%	0.46%	0.46%	0.46%	0.46%	0:46%
0.11%	0.11%	0.11%		1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%
3.89%	3.91%	3.91%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.119
5.52%	5.58%	5.58%	3.91%	3.91%	3.91%	3.91%	3.91%	3.91%	3.91%	3,919
2.41%	2.50%	2.50%	5.58%	5.58%	5.58%	5.58%	5.58%	5.58%	5.58%	5.589
0.37%	0.39%	0.39%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.509
0.73%	0.75%		0.39%	0.39%	0.39%	0.39%	0.39%	0.39%	0.39%	0.399
0.52%	0,7076	0.75%	0.75%	0.75%	0.75%	0.75%	0.75%	0.75%	0.75%	0.75%
0.34%	0.53% 0.35%	0.53%	0.53%	0.53%	0.53%	0.53%	0.53%	0.53%	0.53%	0.539
0.87%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0,35%
1.31%		0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.91%	0.919
1.40%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.33%	1.339
0.96%	1.46%	1.46%	1. <b>46</b> %	1.46%	1.46%	1.46%	1.46%	1.46%	1.46%	1.469
1.00%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.99%	0.999
1.03%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.06%	1.069
0.12%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.139
0.62%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.639
1.04%	1.08%	1.08%	1.08%	1.08%	1.08%	1.08%	1.08%	1.08%	1.08%	1.089
1.64%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.71%	1.719
1.56%	1.63%	1.63%	1.63%	1.63%	1.63%	1.63%	1.63%	1.63%	1.63%	1.639
2.52%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	2.64%	
2.62%	2.73%	2.73%	2.73%	2.73%	2.73%	2.73%	2.73%	2.73%	2.04%	2.649
0.68%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	2.73%	2.739
0.69%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%		0.70%	0.709
3.46%	3.48%	3,48%	3.48%	3.48%	3.48%	3.48%	3.48%	0.71%	0.71%	0.71%
5.89%	5.96%	5.96%	5.96%	5.96%	5.96%	5.96%	5.96%	3.48%	3.48%	3.489
5.63%	5.66%	5.66%	5.66%	5.66%	5.66%	5.66%	5.96%	5.96%	5.96%	5.96%
5.63%	5.69%	5.69%	5.69%	5.69%	5.69%	5.69%	5,66%	5.66%	5.66%	5.66%
6.64%	16.82%	16.82%	16.82%	16.82%	16.82%	16.82%	5.69%	5.69%	5.69%	5.69%
8.03%	8.12%	8.12%	8.12%	8.12%	8.12%	10.0 <u>6</u> % 0.100/	16.82%	16.82%	16.82%	16.829
2.12%	2.21%	2,21%	2.21%	2.21%	2.21%	8.12% 2.21%	8.12%	8.12%	8.12%	8.129
1.09%	1.11%	1.11%	1.11%	1.11%	1.11%		2.21%	2.21%	2.21%	2.219
0.70%	0.73%	0.73%	0.73%	0.73%		1.11%	1.11%	1.11%	1.11%	1.119
6.30%	6.56%	6.56%	6.56%	6.56%	0.73%	0.73%	0.73%	0.73%	0.73%	0.739
1.79%	11.91%	11.91%	11.91%		6.56%	6.56%	6.56%	6.56%	6.56%	6.56%
0.25%	0.26%	0.26%	0.26%	11.91% 0.26%	11.91%	11.91%	11.91%	11.91%	11.91%	11.91%
	410070	V.EU/0	V.EU /6	V.20%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%
0.00%	101.88%	101.88%	101.88%	101.88%	101.88%	101.88%	101 000/	101:000	101.0001	
100%	102%	102%	102%	102%	102%	101.86%	101.88%	101.88%	101.88%	101.88%
	•			17670	10E 10	10476	102%	102%	102%	102%

Table D-18 Residual Value-Added After Loss of Capacity--Air Transportation Lifeline

									•	
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0.45%	0.45%	0.44%	0.440/	0.400	A lone			<u> </u>	
1.06%	1.05%	1.04%	1.03%	0.44% 1.02%	0.43%	0.43%	0.42%	0.42%	0.41%	0.41%
0.11%	0.11%	0.11%	0.11%		1.01%	1.00%	0.99%	0.98%	0.96%	0.95%
3.89%	3.87%	3.83%	3.79%	0.11%	0.11%	0.10%	0.10%	0.10%	0.10%	0.10%
5.52%	5.52%	5.52%	9.797 <u>0</u> E E00/	3.75%	3.70%	3,66%	3.62%	3.58%	3.54%	3,50%
2.41%	2.38%	2.33%	5.52%	5.52%	5.52%	5.52%	5,52%	5.52%	5.52%	5.52%
0.37%	0.37%	0.36%	2.28%	2.23%	2.18%	2,13%	2.08%	2.03%	1.98%	1.93%
0.73%	0.72%	0.70%	0.35%	0.35%	0,34%	0,33%	0.32%	0.31%	0.31%	0.30%
0.52%	0.51%	0,70% 0.EAs/	0.69%	0.67%	0.66%	0,64%	0.63%	0,61%	0.60%	0.58%
0.34%	0.34%	0.50%	0.49%	0.48%	0.47%	0.46%	0.45%	0.43%	0.42%	0.41%
0.87%	0.87%	0.33%	0.32%	0.31%	0.31%	0.30%	0.45% 0.29%	0.29%	0.28%	0.27%
1.31%	1.30%	0.86%	0.85%	0.84%	0.83%	0.82%	0.81%	0.80%	0.79%	0.78%
1.40%	1.39%	1.27%	1.24%	1.22%	1.19%	1.16%	1.13%	1.10%	1.08%	1.05%
0.96%	1.08%	1.36%	1.33%	1.30%	1,27%	1.24%	1.21%	1.18%	1.15%	1.12%
1.03%	0.96%	0.96%	0.96%	0.96%	0.96%	0,96%	0.96%	0.96%	0.96%	0.96%
0.400/	1.02%	1.00%	0.98%	0.95%	0.93%	0.91%	0.89%	0.87%	0.85%	0.82%
0.12%	0.12%	0.12%	0.12%	0.11%	0.11%	0.11%	0.11%	0.10%	0.10%	0.10%
0.62%	0.61%	0.60%	0.59%	0.57%	0.56%	0.55%	0.53%	0.52%	0.51%	0.49%
1.04%	1.04%	1.02%	1.01%	1.00%	0.99%	0.98%	0,97%	0.96%	0.95%	0.94%
1.64%	1.63%	1.61%	1.60%	1.58%	1.56%	1.55%	1.53%	1.51%	1.49%	1.48%
1.56%	1.54%	1.51%	1.48%	1.45%	1.41%	1.38%	1.35%	1.31%	1.28%	1.25%
2.52%	2.48%	2.40%	2.32%	2.24%	2.16%	2,08%	2.00%	1.92%	1.85%	1,60% 1,60%
2.62%	2.58%	2.49%	2.41%	2.33%	2.25%	2.16%	2.08%	2.00%	1.92%	1.77%
0.68%	0.66%	0.64%	0.61%	0.58%	0.65%	0.52%	0.49%	0.46%	1.2670 0.440/	1.83%
0.69%	0.68%	0.67%	0.65%	0.64%	0.62%	0.61%	0.59%	0.58%	0.44%	0.41%
3.46%	3.41%	3.30%	3.19%	3.08%	2.97%	2,86%	2.75%		0.56%	0,55%
5.89%	5.89%	5.89%	5.89%	5.89%	5,89%	5.89%		2.64%	2.53%	2.42%
5.63%	5.57%	5.46%	5.34%	5.22%	5.10%	3,0076 4 A00/	5.89%	5.89%	5.89%	5,89%
5.63%	5.57%	5.46%	5.34%	5.22%	5.10%	4.98%	4.86%	4.74%	4.63%	4.51%
16.64%	16.47%	16.12%	15.77%	15.42%	16 070	4.98%	4.86%	4.74%	4.63%	4,51%
8.03%	7.95%	7.78%	7.61%	7.44%	15.07%	14.72%	14.36%	14.01%	13,66%	13.31%
2.12%	2.08%	1.99%	1.90%	1.81%	7.27%	7.10%	6.93%	6.76%	6.59%	6,42%
1.09%	1.09%	1.09%	1.09%	1.01%	1.72%	1.63%	1.54%	1.45%	1.36%	1.27%
0.70%	0.68%	0.65%	0.62%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1,09%
6.30%	6.27%	6.20%	6.13%	0.59%	0.56%	0.54%	0.51%	0.48%	0.45%	0.42%
11.79%	11.67%	11.42%		6.07%	6,00%	5.93%	5.87%	5,80%	5.73%	5,67%
0.25%	0.25%	0.25%	11.17%	10.92%	10.67%	10.43%	10.18%	9.93%	9.68%	9,43%
		V.Z3%	0.25%	0.25%	0.25%	0.25%	0,25%	0.25%	0.25%	0.25%
00.00%	99.09%	97.27%	95.45%	93.63%	91.81%	90.00%	88.18%	86.36%	84.54%	82,72%
100%	99%	97%	95%	94%	92%	90%	88%	86%	85%	62,72% 83%

Table D-19 Residual Value-Added After Loss of Capacity--Water Transportation Lifeline (Ports)

0%	10%	20%	30%	4004				-		<u> </u>
		2078	30%	40%	50%	60%	70%	80%	90%	100
0.45%	0.44%	0.42%	0.41%	0.000						<u>-</u>
1.06%	1.04%	0.99%	0.95%	0.39%	0.37%	0.35%	0.33%	0.31%	0.29%	0.27
0.11%	0.11%	0.10%	0.10%	0.90%	0.86%	0.81%	0.77%	0.72%	0.68%	0.64
3.89%	3.85%	3.77%	0.10%	0.09%	0.09%	0.08%	0.08%	0.08%	0.07%	0.07
5.52%	5.46%	5.34%	3.68%	3.60%	3.52%	3.44%	3.36%	3.27%	3.19%	3.11
2.41%	2.38%	2.33%	5.23%	5.11%	5.00%	4.88%	4.76%	4.65%	J. 529/	
0.37%	0.37%		2.28%	2.23%	2.18%	2.13%	2.08%	2.03%	4.53% 1.98%	4.42
0.73%	0.72%	0.36%	0.35%	0.35%	0.34%	0.33%	0.32%	0.31%	0.31%	1.93
0.52%	0.7270 A E10/	0.70%	0.69%	0.67%	0.66%	0.64%	0.63%	0.61%	0.41% 0.400	0.30
0.34%	0.51%	0.50%	0.49%	0.48%	0.47%	0.46%	0.45%	0.43%	0.60%	0.589
0.87%	0.34%	0.33%	0.32%	0.31%	0.31%	0.30%	0.43%		0.42%	0.419
1.31%	0.86%	0.83%	0.80%	0.77%	0.75%	0.72%	0.29% 0.69%	0.29%	0.28%	0.27
	1.30%	1.27%	1.24%	1.22%	1.19%	1.16%	1.13%	0.66%	0.64%	0.619
1.40%	1.39%	1.36%	1.33%	1.30%	1.27%	1.24%	1.13%	1.10%	1.08%	1.059
0.96%	0.92%	0.84%	0.76%	0.68%	0.60%	0.52%	1.2170	1.18%	1.15%	1.129
1.03%	1.02% 0.12%	1.00%	0.98%	0.95%	0.93%		0.44%	0.35%	0.27%	0.199
0.12%	0.12%	0.12%	0.12%	0.11%	0.11%	0.91%	0.89%	0.87%	0.85%	0.829
0.62%	0.61%	0.60%	0.59%	0.57%	0.56%	0.11%	0.11%	0.10%	0.10%	0.109
1.04%	1.03%	1.01%	0.99%	0.96%	0.94%	0.55%	0.53%	0.52%	0.51%	0.499
1.64%	1.61%	1.56%	1.51%	1.46%		0.92%	0,90%	0.88%	0.51% 0.85%	0.839
1.56%	1.54%	1.49%	1.44%	1.39%	1.41%	1.36%	1.30%	1.25%	1.20%	1.159
2.52%	2.50%	2.44%	2.39%	2.34%	1.34%	1.29%	1.24%	1.19%	1.14%	1.099
2.62%	2.58%	2.49%	2.41%	4.04%	2.28%	2.23%	2.18%	2.12%	2.07%	2.029
0.68%	0.68%	0.67%	0.66%	2.33%	2.25%	2.16%	2.08%	2.00%	1.92%	1.839
0.69%	0.68%	0.67%	0.65%	0.65%	0.65%	0.64%	0.63%	0.63%	0.62%	0.619
3.46%	3.41%	3.30%	0.00%	0.64%	0.62%	0.61%	0.59%	0.58%	0.56%	0.559
5.89%	5.89%	5.89%	3.19%	3.08%	2.97%	2.86%	2.75%	2.64%	2.53%	2.429
5.63%	5.57%	5.46%	5.89%	5.89%	5.89%	5.89%	5.89%	5.89%	5.89%	2.427 E 000
5.63%	5.63%		5.34%	5.22%	5.10%	4.98%	4.86%	4.74%	4.63%	5.89%
6.64%	16.64%	5.63%	5.63%	5.63%	5.63%	5.63%	5.63%	5.63%	5.63%	4.519
3.03%	8.03%	16.64%	16.64%	16.64%	16.64%	16.64%	16.64%	16.64%		5.63%
2.12%		8.03%	8.03%	8.03%	8.03%	8.03%	8.03%	8.03%	16.64%	16.649
1.09%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	0.03%	8.03%	8.03%
0.70%	1.09%	1.09%	1.09%	1.09%	1.09%	1,09%	1.09%	2.12% 1.09%	2.12%	2.129
7.70% : 200/	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%		1.09%	1.09%	1.09%
i.30% · .	6.30%	6.30%	6.30%	6.30%	6.30%	6.30%	0.70%	0.70%	0.70%	0.70%
.79%	11.79%	11.79%	11.79%	11.79%	11.79%	11.79%	6.30%	6.30%	6.30%	6,30%
.25%	0.25%	0.25%	0.25%	0.25%	0.25%	11./3% 0.0Es/	11.79%	11.79%	11.79%	11.79%
.00%	00.4754			4.2070	0.2078	0.25%	0.25%	0.25%	0.25%	0.25%
100%	99.47%	98.40%	97.33%	96.26%	95.19%	94.12%	93.05%	04.0004		
100%	99%	98%	97%	96%	95%			91.98%	90.91%	89.84% 90%
		3076	9170	96%	95%	94%	93%	92%	91%	03.

Table D-20 Residual Value-Added After Loss of Capacity--Telephone Lifeline

0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
0.45%	0.45%	0.44%	0.43%	0.42%	0.41%	0.40%	O 2009/	A 0.00v	. A. W	
1.06%	1.05%	1,03%	1.00%	0.98%	0.96%	0.94%	0.39% 0.91%	0.38%	0.37% 0.87%	0,36%
0.11%	0.11%	0.11%	0.10%	0.10%	0.10%	0.10%		0.89%	0.8/%	0.85%
3.89%	3.87%	3.83%	3.79%	3.75%	3.70%	3.66%	0.10% 3.62%	0.09%	0.09%	0.09%
5.52%	5.49%	5,43%	5.37%	5,32%	5.26%	5.20%	5.14%	3.58%	3.54%	3,50%
2.41%	2.39%	2.35%	2.31%	2.27%	2.24%	2.20%	2.16%	5.08% 2.12%	5,03%	4.97%
0.37%	0.37%	0.36%	0.36%	0.35%	0.35%	0.34%	0.33%	0.33%	2.08%	2,05%
0.73%	0.72%	0.71%	0.70%	0.69%	0.67%	0.66%	0.65%		0.32%	0.32%
0.52%	0.51%	0.50%	0.50%	0.49%	0.48%	0.47%	0.46%	0.64%	0.63%	0.62%
0.34%	0.34%	0.33%	0.33%	0.32%	0.31%	0.31%	0.30%	0.45%	0.45%	0.44%
0.87%	0.87%	0.86%	0.85%	0.84%	0.83%	0.82%	0.81%	0.30%	0.29%	0.29%
1.31%	1.30%	1.28%	1.26%	1.24%	1.22%	1.20%	1.18%	0.80%	0.79%	0.78%
1.40%	1.39%	1,37%	1.35%	1,33%	1.30%	1.28%	1.26%	1.16%	1.14%	1.12%
0.96%	0.96%	0.95%	0.94%	0.93%	0.92%	0.91%	0.90%	1.24%	1.22%	1.19%
1.03%	1.02%	1.01%	0.99%	0.97%	0.96%	0.94%	0.92%	0.89% 0.91%	0.88%	0.87%
0.12%	0.12%	0.12%	0.12%	0.12%	0.11%	0.11%	0.11%	0.11%	0.89%	0.88%
0.62%	0.61%	0.60%	0.59%	0.58%	0.57%	0.56%	0.55%		0.11%	0.10%
1.04%	1.03%	1.02%	1.00%	0.98%	0.97%	0.95%	0.93%	0.54% 0.9 <b>2</b> %	0.54% 0.90%	0.63%
1.64%	1.63%	1.61%	1.60%	1.58%	1.56%	1.55%	1.53%	1.51%	1.400/	0.88%
1.56%	1.55%	1.54%	1.52%	1.50%	1.49%	1.47%	1.45%	1.44%	1.49%	1.48%
2.52%	2.50%	2.46%	2.42%	2.38%	2.34%	2.30%	2,26%	2.22%	1.42%	1.40%
2.62%	2.61%	2.58%	2,55%	2,52%	2.49%	2.47%	2.44%	2.41%	2.18% 2.38%	2.14%
0.68%	0.67%	0.65%	0.63%	0.60%	0.58%	0.56%	0.54%	0.52%		2,36%
0.69%	0.68%	0.67%	0.66%	0,65%	0.64%	0.63%	0.62%	0.61%	0.50% 0.60%	0.48%
3.46%	3.41%	3,30%	3,19%	3.08%	2.97%	2.86%	2.75%	2.64%	2.53%	0.58%
5.89%	5.79%	5.61%	5.42%	5,24%	5.05%	4.86%	4.68%	4.49%	4.31%	2.42%
5.69%	5.49%	5.19%	4.89%	4.60%	4.30%	4.00%	3.71%	3.41%	4.31% 3.11%	4.12%
5.63%	5.49%	5.19%	4.89%	4.60%	4.30%	4.00%	9.71%	3.41%	3,11% 3,11%	2.82%
5.64%	16.12%	15,07%	14.01%	12.96%	11.91%	10.86%	9.81%	8.76%	3.11% 7.71%	2,82%
3.03%	7.86%	7.52%	7.19%	6,85%	6.51%	6.17%	5.83%	5,49%	7.71% 5.16%	6.66%
2.12%	2.08%	1.99%	1.90%	1.81%	1.72%	1.63%	1,54%	1.45%	1.36%	4.82%
.09%	1.07%	1.03%	0.98%	0.93%	0.89%	0.84%	0.80%	0.75%	1,00%	1.27%
).70%	0.68%	0.65%	0.62%	0.59%	0.56%	0.54%	0.51%	0.48%	0.70% 0.45%	0,66%
5.30%	6.25%	6.15%	6.05%	5.95%	5.85%	5.75%	5.65%	0.46% 5.55%	0.45% 5.45%	0.42%
.79%	11.67%	11.42%	11.17%	10.92%	10,67%	10.43%	10.18%	9.93%		5,35%
).25%	0.25%	0.24%	0.24%	0.23%	0.23%	0.22%	0.22%	9.93% 0.21%	9.68% 0.21%	9.43% 0.20%
0.00%	98,38%	95,14%	91.91%	88,67%	85.43%	82,20%	78.96%		_	
100%	98%	95%	92%	89%	85%	62,20% 82%	76.96% 79%	75.72% 76%	72.48% 72%	69.25% 69%

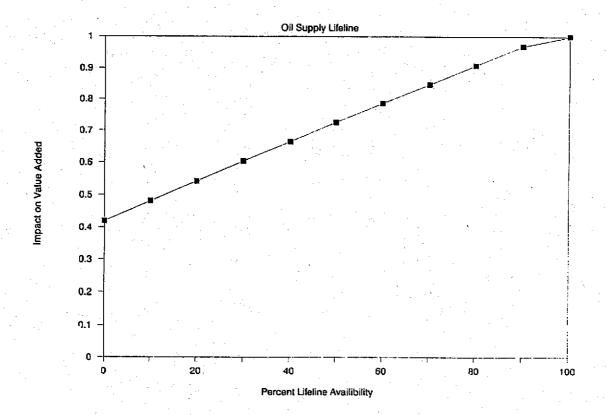


Figure D-1 Residual Value Added as a Function of Oil Supply Lifeline Residual Capacity.

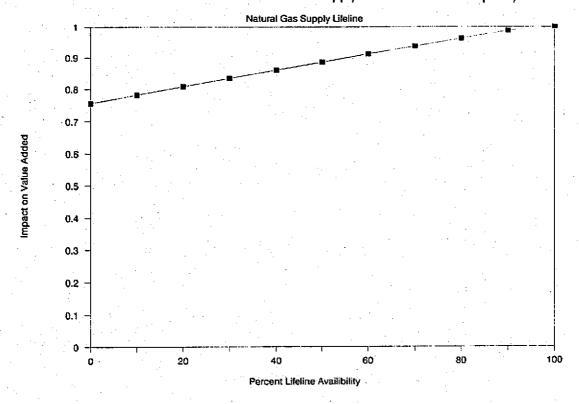


Figure D-2 Residual Value Added as a Function of Natural Gas Supply Lifeline Residual Capacity.

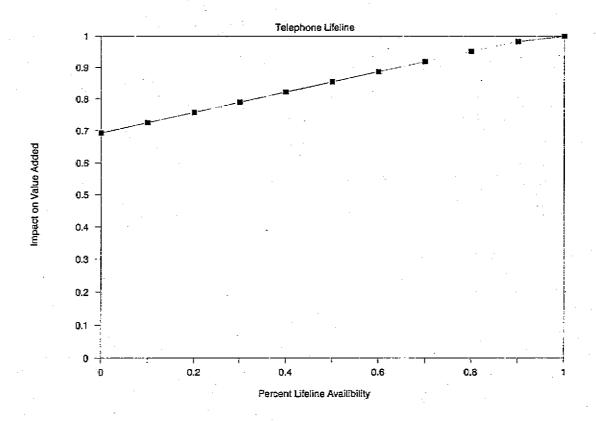


Figure D-3 Residual Value Added as a Function of Telephone Lifeline Residual Capacity.

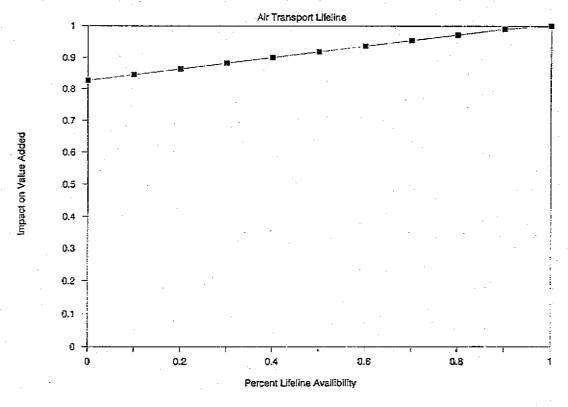


Figure D-4 Residual Value Added as a Function of Air Transportation Lifeline Residual Capacity.

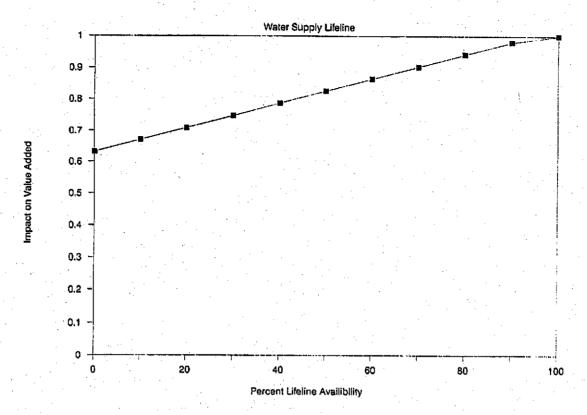


Figure D-5 Residual Value Added as a Function of Water Supply Lifeline Residual Capacity.

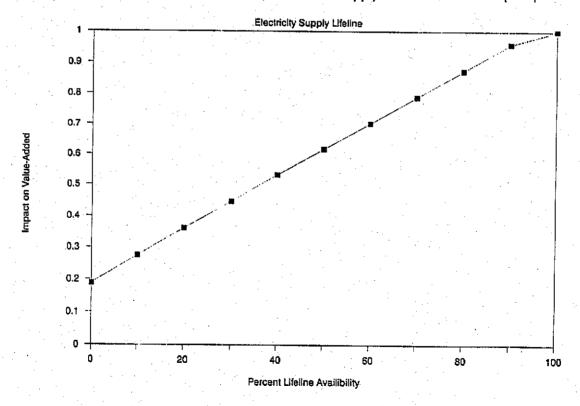


Figure D-6 Residual Value Added as a Function of Electric Lifeline Residual Capacity.

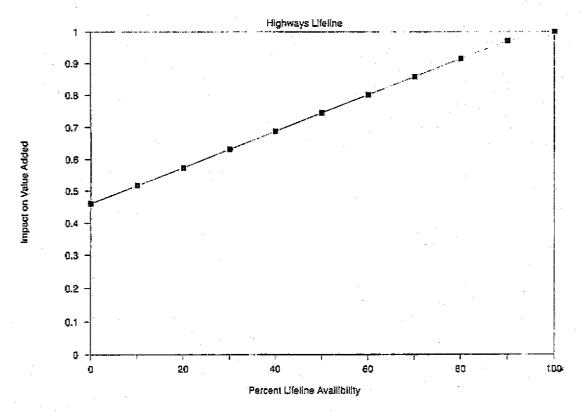


Figure D-7 Residual Value Added as a Function of Highway Lifeline Residual Capacity.

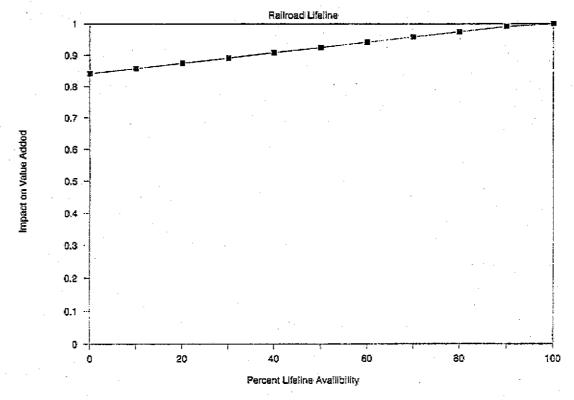


Figure D-8 Residual Value Added as a Function of Railroad Lifeline Residual Capacity.

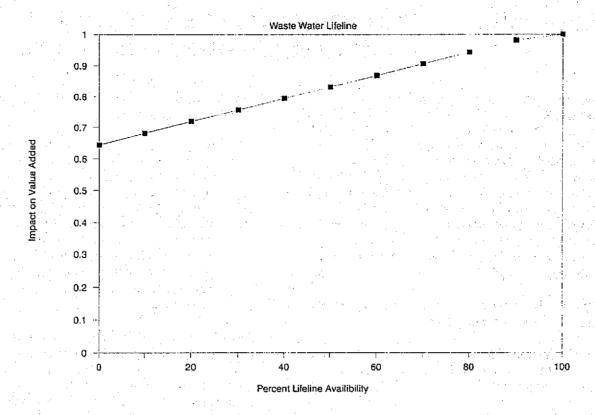


Figure D-9 Residual Value Added as a Function of Sanitary Sewer Lifeline Residual Capacity.